

# THREE-DIMENSIONAL IMAGING DECORATING SHEET AND THE METHOD FOR MANUFACTURING THE SAME

## BACKGROUND OF THE INVENTION

### 1. Field of the Invention

The present invention relates to decorating sheet, and particularly to a three-dimensional imaging decorating sheet and the method for manufacturing the same. The three-dimensional imaging decorating sheet is suitable for flyable rotary disks, plastic toys, stationeries, name card boxes, household utensils, etc.

### 2. Description of Related Art

The conventional three dimensional (3D) decorating sheets have 3D figures on the decorating sheets despite of making by injection molding or embossing so that a 3D images can be presented as viewed by people. The embossment figures are similar to current relief printing or photogravure. However, the decorating sheets can not present a transparent image with bright and dark effects. The reason is that the conventional two-dimensional decorating sheet has poor effect in perspective view. The prior decorating sheets are too thick and thus have poor transparency. Moreover, the prior art decorating sheet cannot present different layers of light effect. As a result they cannot present a vivid perspective view.

## SUMMARY OF THE INVENTION

Accordingly, the primary object of the present invention is to provide a three-dimensional imaging decorating sheet made by injection molding or plastic-molding and method for manufacturing the same. The decorating sheet is a semi-transparent thin plastic plate and has embossment figures on surfaces thereof which are not flat. Therefore, as a backside of the decorating sheet faces to a light source, a three-dimensional image will present to the viewer.

Another object of the present invention is to provide a method for manufacturing a three-dimensional imaging decorating sheet so that a thin plate has embossment figures at one surface or two surface. The method comprises the steps of: inputting figures to a computer for performing predetermined processing; performing chromatography to the input figures; converting the result of the chromatography into control codes; inputting a control program to a CNC machine for machining an mold; and injecting or plastic-molding an integral-formed plastic decorating sheet by the mold.

The various objects and advantages of the present invention will be more readily understood from the following detailed description when read in conjunction with the appended drawing.

## BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 shows the process for manufacturing the three-dimensional imaging decorating sheet of the present invention.

Fig. 2 is a cross section view of the decorating sheet of the present invention.

Fig. 3 is a perspective view showing a flyable rotary disk of the present invention viewed by eyes.

5 Fig. 4 is a partial cross section view showing a flyable rotary disk of the present invention viewed by eyes.

Fig. 5 shows an outlook of a flyable rotary disk of the present invention viewed by eyes.

Fig. 6 shows a flyable rotary disk of the present invention with a figure of a person thereon.

Fig. 7 is a schematic view showing a flying rotary disk of the present invention viewed by eyes.

Fig. 8 is a partial cross section view showing a flying rotary disk of the present invention viewed by eyes.

15 Fig. 9 is a perspective view showing a flying rotary disk of the present invention viewed by eyes.

Fig. 10 is a perspective view of a flying rotary disk of the present invention with a figure of a person thereon.

20 Fig. 11 is a schematic cross sectional view showing that the present invention is applied to a children game card.

Fig. 12 is a schematic view showing an application of the game card of Fig. 11.

## DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring to Fig. 1, the embodiment of the present invention will be described herein.

Fig. 1 shows a flow diagram of three-dimensional imaging decorating sheet of the present invention. The manufacturing process of the decorating sheet includes the following steps.

- (1) Input figures, such as LOGOs of a company, images of people, scenery, drawings, photographs, cartoon figures, etc., to be displayed to a computer;
- (2) Perform chromatography to the input figures;
- (3) Convert the result of the chromatography into control codes;
- (4) Input the control code to a CNC machine for machining an mold; and
- (5) Inject or plastic-mold an integral-formed plastic decorating sheet 10 by the mold.

Referring to Fig. 2, a cross section view of the plastic decorating sheet is illustrated. This plastic decorating sheet can be used in many objects. For example, the flyable rotary disk 11 has a 3D (three embossment) figures 12 after being shaped. The figure 12 is transparent. When light 6 passes to this region, the viewer may view the 3D figures therein so as to present a vivid effect. This will be further described hereinafter.

Referring to Figs. 3 and 4, the perspective view and partial cross section view of the flyable rotary disk according to the present invention is illustrated. The plastic flyable rotary disk 11 has a surface

with a 3D embossment figure 12 which is a transparent decorating region and is not a flat region. When the user views the embossment figure 12 by eyes, the 3D outlook (referring to Fig. 5) is identical to the embossment figure 12. That is, the outlook presents the 3D image of the figure. The convex portions 81, 121 present as dark regions, while the concave portions 82, 122 presents as bright regions. For example, those having deep colors, such as hairs, eyebrows, pupils, etc., are presented by convex portions and shows with dark color, while the face, hands, and legs are presented by light colors. Therefore, when the eyes of the viewer are at the same direction of the light source 6, only the embossment figure of the decorating sheet is viewed, as illustrated in Fig. 6.

Referring to Figs. 6, and 8, a schematic view and partial cross section view of the figures view by the eyes according to the present invention is illustrated. A transparent or semi-transparent flyable rotary disk 11 has a surface with a 3D embossment figure 12 formed thereon and thus the surface is not flat. The thickness portion 121 may absorb more light and thus presents as dark regions, while the thin portion 122 presents with bright regions. Different layers present different light effects. Therefore, as the backside of the flyable rotary disk faces to the light source 6, the figures with layers of different light effects can be viewed and as a result a 3D outlook 9 as illustrated in Fig. 9 is shown. The dark region 91 in this outlook is the thick portion 121 of the 3D figures, and the bright portion 92 of this outlook is the thin portion 122. It is apparent that the outlook 9 is opposite to the shape of the

embossment figure 12. Because of the layers of different light effects, it presents as a vivid 3D practical figures, as shown in the Fig. 10.

With reference to Fig. 11, a schematic cross sectional view showing that the present invention is used in a children game card is illustrated.

5 In this embodiment, a three-dimensional embossment figure 51 is formed on a plastic surface of the children game card. This 3D embossment figure 51 is a transparent decorating region. When light passes through this transparent three-dimensional embossment figure 51, a vivid 3D figure will present. Referring to Fig. 12, a 3D cartoon round  
10 sheet is shown. This sheet has not only the functions of rotation and flying, but also presents as a 3D transparent figures. Similarly, the present invention can be used other plastic toys, stationeries, name card boxes, household utensils, etc. Therefore, the toys have dual functions.

Other than forming an embossment figure on one surface of the  
15 plastic decorating sheet, figures can be formed at two surfaces of the decorating sheet, while in this condition, the two figures must be symmetrical. Otherwise, the images formed by light passing through the figures will present as an image of non-aligned two overlapping figures.

In summary, other than the embossment figure on the decorating  
20 sheet of the present invention, after radiating by a light source, the thin regions will has a clear image, while the thick regions have an unclear image. Therefore, the present invention presents an image different from those generated by the prior art. Although the decorating sheet of the present invention is made by injection molding, the decorating sheet  
25 of the present invention has a plate-like shape which is not flat so as to

present special visual effect as radiating by light.

Although the present invention has been described with reference to the preferred embodiments, it will be understood that the invention is not limited to the details described thereof. Various substitutions and  
5 modifications have been suggested in the foregoing description, and others will occur to those of ordinary skill in the art. Therefore, all such substitutions and modifications are intended to be embraced within the scope of the invention as defined in the appended claims.

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